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A. CLASS IPC 7	IFICATION OF SUBJECT MATTER C07K14/32 A61K39/07 A61P31/	/04 C07K16/12		
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		ication and IPC		
	SEARCHED			
IPC 7	consideration searched (classification system followed by classification symbols) CO7K To 7K To 7K To 8 a consisted other than minimum documentation to the extent that such documents are included in the fields searched at a base consulted during the international search (name of data base and, where practical, search terms used) ternal, WPI Data, PAJ, CHEM ABS Data ENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages ALKAN, SEFIK S. ET AL: "Antigen recognition and the immune response. Capacity of L-tyrosine-azobenzenearsonate to serve as a carrier for a macromolecular hapten" JOURNAL OF IMMUNOLOGY, 107(2), 353-8 CODEN: JOIMA3; ISSN: 0022-1767, 1971, XP009039727 abstract; page 354, right-hand column, second paragraph; paragraph joining pages 355 and 356; page 356, paragraph joining left- and right-hand column; page 357			
Electronic	data base consulted during the international search (name of data t	pase and, where practical, search terms used	1)	
EPO-In	ternal, WPI Data, PAJ, CHEM ABS Dat	a		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category •	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.	
x	recognition and the immune res Capacity of L-tyrosine-azobenzen	nonse		
.,	macromolecular hapten" JOURNAL OF IMMUNOLOGY , 107(2), CODEN: JOIMA3; ISSN: 0022-1767, XP009039727	1971,		
Υ	second paragraph: paragraph ioin	ing pages joining e 357	6,10	
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	ner documents are listed in the continuation of box C	Patent family members are listed ii	аплех	
A docume	regories of cited documents Int defining the general state of the art which is not ered to be of particular relevance Occurrent but published on or after the international	*T* later document published after the inter or priority date and not in conflict with cited to understand the principle or the invention	the application but	
"L" docume: which i	ete nt which may throw doubts on priority claim(s) or s cried to establish the publication date of another or other special reason (as specified)	'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance, the claimed invention		
"O" docume other n	ent referring to an oral disclosure, use, exhibition or neans	cannot be considered to involve an inv document is combined with one or mo- ments, such combination being obvious	entive step when the	
Hater til	nt published prior to the international filing date but an the priority date claimed	in the art *a* document member of the same patent f		
Date of the a	uctual completion of the international search	Date of mailing of the international sear	ch report	
	3 November 2004	08/12/2004		
Name and m	ailing address of the ISA European Patent Office, P B 5818 Patentiaan 2 NL - 2280 HV Rijswijk	Authorized officer		
	Tel (+31-70) 340-2040. Tx 31 651 epo nl, Fax (+31-70) 340-3016	Fausti, S		

Intern: pplication No PCT/US2004/017736

C.(Continu	lation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/US2004/017736
ategory •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	GOODMAN J W ET AL: "Immunochemical studies on the poly-gamma-D-glutamyl capsule of Bacillus anthracis. 3. The activity with rabbit antisera of peptides derived from the homologous polypeptide." BIOCHEMISTRY. FEB 1968, vol. 7, no. 2, February 1968 (1968-02), pages 706-710, XP001203672 ISSN: 0006-2960 abstract; page 706; right-hand column, lines 10-13	28-31
x	DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; February 1975 (1975-02), KLAUS G G ET AL: "The immunological properties of haptens coupled to thymus-independent carrier molecules. III. The role of the immunogenicity and mitogenicity of the carrier in the induction of primary IgM anti-hapten responses." XP002306078 Database accession no. NLM10166 abstract & EUROPEAN JOURNAL OF IMMUNOLOGY. FEB 1975, vol. 5, no. 2, February 1975 (1975-02), pages 105-111, ISSN: 0014-2980	1-4,7-9, 11-19, 32,33
X	SENYK, GEORGE ET AL: "Immune response to glucagon in conjugated form" IMMUNOCHEMISTRY, 9(2), 97-110 CODEN: IMCHAZ; ISSN: 0019-2791, 1972, XP009039720 abstract; paragraph joining pages 98 and 99	1-4,7-9, 11-19, 32,33
	F PRODHOMME EMMANUEL J -P ET AL: "Poly-gamma-D-glutamic acid as a template for functionalized water-soluble biomaterials" ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY, vol. 219, no. 1-2, 2000, page BIOL 133, XP009039728 & 219TH MEETING OF THE AMERICAN CHEMICAL SOCIETY.; SAN FRANCISCO, CALIFORNIA, USA; MARCH 26-30, 2000 ISSN: 0065-7727 abstract	1-4,7,8,

Interr aplication No
PCT/US2004/017736

stion) DOCUMENTS CONSIDERED TO DE TOTAL	PCT/US2004/017736
or addition of the relevant passages	Relevant to claim No.
SCHNEERSON RACHEL ET AL: "Poly(gamma-D-glutamic acid) protein conjugates induce IgG antibodies in mice to the capsule of Bacillus anthracis: A potential addition to the anthrax vaccine." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 100, no. 15, 22 July 2003 (2003-07-22), pages 8945-8950, XP002306072 ISSN: 0027-8424 the whole document	1-33
LEPPLA STEPHEN H ET AL: "Development of an improved vaccine for anthrax" JOURNAL OF CLINICAL INVESTIGATION, vol. 110, no. 2, July 2002 (2002-07), pages 141-144, XP002306073 ISSN: 0021-9738 page 143, left-hand column, line 1 - right-hand column, line 11	6,10
WELKOS SUSAN ET AL: "The role of antibodies to Bacillus anthracis and anthrax toxin components in inhibiting the early stages of infection by anthrax spores" MICROBIOLOGY (READING), vol. 147, no. 6, June 2001 (2001-06), pages 1677-1685, XP002306074 ISSN: 1350-0872 abstract; page 1678, left-hand column, lines 7-14; paragraph joining pages 1682 and 1683; page 1684; paragraph joining left- and right-hand columns	1-33
WO 01/60412 A (GENZYME CORP) 23 August 2001 (2001-08-23) paragraph joining pages 6 and 7; claims 1 and 7	12-14
	"Poly(gamma-D-glutamic acid) protein conjugates induce IgG antibodies in mice to the capsule of Bacillus anthracis: A potential addition to the anthrax vaccine." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 100, no. 15, 22 July 2003 (2003-07-22), pages 8945-8950, XP002306072 ISSN: 0027-8424 the whole document LEPPLA STEPHEN H ET AL: "Development of an improved vaccine for anthrax" JOURNAL OF CLINICAL INVESTIGATION, vol. 110, no. 2, July 2002 (2002-07), pages 141-144, XP002306073 ISSN: 0021-9738 page 143, left-hand column, line 1 - right-hand column, line 11 WELKOS SUSAN ET AL: "The role of antibodies to Bacillus anthracis and anthrax toxin components in inhibiting the early stages of infection by anthrax spores" MICROBIOLOGY (READING), vol. 147, no. 6, June 2001 (2001-06), pages 1677-1685, XP002306074 ISSN: 1350-0872 abstract; page 1678, left-hand column, lines 7-14; paragraph joining pages 1682 and 1683; page 1684; paragraph joining left- and right-hand columns WO 01/60412 A (GENZYME CORP) 23 August 2001 (2001-08-23) paragraph joining pages 6 and 7: claims 1

application No. PCT/US2004/017736

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
The state of the s
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 20-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
approximation, as follows.
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
<u> </u>
No protest accompanied the payment of additional search fees.

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
WO 0160412	A	23-08-2001	AU CA EP JP WO US US	3834601 A 2400205 A1 1263472 A2 2003522806 T 0160412 A2 2003087877 A1 2004209842 A1	27-08-2001 23-08-2001 11-12-2002 29-07-2003 23-08-2001 08-05-2003 21-10-2004	